

20030208.qrp v02\_n825.qrl.20030208

Date: Sat, 8 Feb 2003 19:03:04 EST  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 2825

QRP-L Digest 2825

Topics covered in this issue include:

- 1) [145895] Upcoming DXpedition to KG4  
by "Alan Kaul, W6RCL" <alan.kaul@worldnet.att.net>
- 2) [145896] Re: 4th Twofer in a row!  
by "George, W5YR" <w5yr@att.net>
- 3) [145897] Dual-gate FETs  
by "Ian Wilson" <ianmwilson@earthlink.net>
- 4) [145898] Re: Check those electrolytics!  
by Steven Weber <kd1jv@moose.ncia.net>
- 5) [145899] Tuna Tin 2 with feathers?  
by "J. Michael Thurman, WN5T" <jmthurman@centurytel.net>
- 6) [145900] Re: 4th Twofer in a row!  
by W2AGN <w2agn@w2agn.net>
- 7) [145901] Re: Transistor Input Impedance  
by k4vib@att.net
- 8) [145902] 10 Turn Pots are GONE  
by "brian" <brian@iquiest.net>
- 9) [145903] FOX: 4th Twofer in a row!  
by Lloyd Lachow <llachow@yahoo.com>
- 10) [145904] Re: Is digital moving in  
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 11) [145905] Update: RF Probe Experiments  
by Chuck Carpenter <w5usj@9plus.net>
- 12) [145906] Fw: Let's cheer up a long time reflector member  
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 13) [145907] RE: Is digital moving in  
by "N4LGH" <n4lgh@waveguide.us>
- 14) [145908] HB - LM1350s  
by "Harry T. Hurst" <wa3ptg@comcast.net>
- 15) [145909] Fwd: [Antennas] windowed ladder line vs. true open wire line  
by Ed Tanton <n4xy@earthlink.net>
- 16) [145910] Band Switches  
by Edgar R Guillot <n5ed@juno.com>
- 17) [145911] Re: New Zeland Falls  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 18) [145912] Re: FOX: Triple but hard work!  
by Chuck Carpenter <w5usj@9plus.net>
- 19) [145913] Wayne NB6M/MM on 20 meters near Mulge, Mexico

- by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 20) [145914] Re: Wayne NB6M/MM on 20 meters near Mulege, Mexico  
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 21) [145915] Trip to Troy  
by Rick McKee <kc8aon@juno.com>
- 22) [145916] Re: FOX: Triple but hard work!  
by "Karl F. Larsen" <k5di@zianet.com>
- 23) [145917] QRP DXCC  
by "Johan Smet" <johan\_smet@pandora.be>
- 24) [145918] Re: Dual-gate FETs  
by "Chris Trask" <chistrask@earthlink.net>
- 25) [145919] Truffle  
by "Jay Henson" <aj4ay@worldnet.att.net>
- 26) [145920] Re: Band Switches  
by Ed Tanton <n4xy@earthlink.net>
- 27) [145921] Re: Upcoming DXpedition to KG4  
by Bob Nielsen <nielsen@oz.net>
- 28) [145922] Re: Fw: Let's cheer up a long time reflector member  
by Rick McKee <kc8aon@juno.com>
- 29) [145923] Swap Elements?  
by "George, W5YR" <w5yr@att.net>
- 30) [145924] Digital on 40 meters  
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 31) [145925] More on capacitors  
by Pete Burbank <plburbank@earthlink.net>
- 32) [145926] Re: Transistor Input Impedance  
by "Ward Silver" <hwardsil@centurytel.net>
- 33) [145927] Re: Triple but hard work!  
by "Don Wines" <dwines@tyler.net>
- 34) [145928] Re: QRP-L digest 2824  
by Monty N5ESE <n5ese@io.com>
- 35) [145929] Re: Dual-gate FETs  
by "Chris Trask" <chistrask@earthlink.net>
- 36) [145930] RE: Transistor Input Impedance  
by Nick Kennedy <nkennedy@tcainternet.com>
- 37) [145931] Re: It's getting to be 30m time in the evenings!  
by "Stephen Yates" <aa5tb@arrl.net>
- 38) [145932] NK6A FOX  
by Don Minkoff <cowchip@attbi.com>
- 39) [145933] Re: Transistor Input Impedance  
by "George, W5YR" <w5yr@att.net>
- 40) [145934] Re: Dual-gate FETs  
by "Ian Wilson" <ianmwilson@earthlink.net>
- 41) [145935] Re: Digital on 40 meters  
by Pete Burbank <plburbank@earthlink.net>
- 42) [145936] Need Ten Tec CW filters  
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 43) [145937] I jumped for this one!

- by Alex <kr1st@amsat.org>
- 44) [145938] Juno's Spamkiller & arrl.net  
by wkhibbert@juno.com
- 45) [145939] 30m time in the evenings!  
by "ss lyon" <sslyon@megalink.net>
- 46) [145940] Re: [Antennas] windowed ladder line vs. true open wire line  
by "ss lyon" <sslyon@megalink.net>
- 47) [145941] Re: Check those electrolytics!  
by "Leon Heller" <leon\_heller@hotmail.com>
- 48) [145942] Re: Triple but hard work!  
by "Karl F. Larsen" <k5di@zianet.com>
- 49) [145943] Re: Fw: Let's cheer up a long time reflector member  
by Rick McKee <kc8aon@juno.com>
- 50) [145944] Re: Triple but hard work!  
by Larry Cahoon <lejek@erols.com>
- 51) [145945] FS Books  
by "Rod N0RC" <rod@n0rc.us>
- 52) [145946] K2 QSL  
by Randy Moore <wrmoore47@comcast.net>
- 53) [145947] WTB--T-T 282 and 285 filtres  
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 54) [145948] re: [OT] Mostek Part Identity Help Needed  
by "David B. Sarraf" <david.sarraf@paonline.com>
- 55) [145949] XF1K ..... 24908 ... Got em 5 w  
by "George Osier" <gosier@twcnny.rr.com>
- 56) [145950] CW contest ops--chance to see over 50 F12 elements next weekend  
by "Alan Kaul, W6RCL" <alan.kaul@worldnet.att.net>
- 57) [145951] Check those electrolytics!  
by Dick Ballard <ballardr@att.net>
- 58) [145952] Re: Dual-gate FETs  
by "Sam Dellit" <sam.dellit@bigpond.com>
- 59) [145953] Re: Is digital moving in?  
by Mike Seiffert & Lorene Samoska <samsei@earthlink.net>
- 60) [145954] FIST Sprint - QRP Style  
by "brian" <brian@iquest.net>
- 61) [145955] FOX LOG for NK6A Feb 7  
by Don Minkoff <cowchip@attbi.com>

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Date: Fri, 7 Feb 2003 08:32:39 -0800  
From: "Alan Kaul, W6RCL" <alan.kaul@worldnet.att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145895] Upcoming DXpedition to KG4  
Message-ID: <003101c2cec6\$89a2f5c0\$b93ecd18@charterpipeline.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

This is from the ARRL weekly DX note....

This prefix is activated (at most) only once or twice a year -- so if you haven't worked it, it ought to be possible from most of the USA during the contest.

GUANTANAMO BAY, KG4. Members from the Virginia DX Century Club will be active from February 11 to 19. Look for KG4ZK, KG4NW, KG4EC and KG4ZO. QSL via W4ZYT, N8CH, KU4EC and N6ZO, respectively. Their activity will include participation as KG4DZ in the ARRL DX CW Contest. QSL KG4DZ via W4SD.

Good luck!

Alan Kaul, W6RCL, LaCanada, CA  
w6rcl@amsat.org  
<http://home.att.net/~alan.kaul/index.html>

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Date: Fri, 7 Feb 2003 10:52:25 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: <w2agn@w2agn.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [145896] Re: 4th Twofer in a row!  
Message-ID: <009101c2cec9\$4b272480\$0201a8c0@fairviewtx.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Also managed to work Don despite the problems. Heard you, too, John with a good signal down here in Pesky Texan land.

I thought that the guys on Don's frequency were sending "QSY" and "QRL" but evidently it was "QSL" so I'd better sharpen up on code receiving.

Like you, I ran the entire Hunt with everything set "wide open" on the Icom PR02. I don't know how it works that way, but in the 2.5 years that I have operated an Icom PR0 and now the PR02 and the 13 years I have operated my 765, I can never recall ever turning off the AGC or even touching the "RF" gain controls. Guess I have been missing a lot by such inept operating . . .

Or, do you suppose that some radios are designed with effective AGC

systems and decent front ends that preclude having to diddle with the "RF" gain and crank in attenuation in order to work?

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas  
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE  
"In the 57th year and it just keeps getting better!"

----- Original Message -----

From: "W2AGN" <w2agn@w2agn.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Friday, February 07, 2003 7:29 AM  
Subject: FOX: 4th Twofer in a row!

>

> BTW, I did this hunt with the K1. Worked great, no problem with no  
split VFO  
> since the RIT/XIT works terrific. Ideal for fox hunt, or DX. Never  
used  
> the attenuator, and no RF gain, so I guess I was just lucky.

> -----Original Message-----

>

> From: k5di@zianet.com  
> Date: Friday, February 07, 2003 01:10:34 AM  
> To: Low Power Amateur Radio Discussion  
> Subject: FOX: Triple but hard work!  
>  
> I fear Don had his receiver preamp on and AGC on and 10 db  
attenuator  
> off. He is having trouble working the strong guys too.

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Date: Fri, 7 Feb 2003 08:58:52 -0800  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [145897] Dual-gate FETs  
Message-ID: <000401c2ceca\$319d4020\$0b02a8c0@WorkGroup>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I picked up some dual-gate FETs recently, some 3N201s and some 3SK35s. While I

can find the characteristics for these devices (or NTE equivalents), what I would really like is some information about dual-gate MOSFETs in general; for example, how to bias them. I'm guessing from the circuits that I've seen that typically Gate 2 is biased like the screen in a tetrode (that is, above Gate 1 and below the drain voltage) for linear operation.

For mixer use, I've seen large signals injected into Gate 2 and small signals into Gate 1, with no bias on Gate 2.

Any pointers to information, preferably on-line, would be appreciated.

73 de ian, k3imw/6

-----  
Date: Fri, 07 Feb 2003 12:11:29 -0500  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [145898] Re: Check those electrolytics!  
Message-ID: <3.0.6.32.20030207121129.007ad310@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I'm forever chasing down bad electrolytics. 100 uF/25V seem to be common ones to short in cheap stereos.

For the last couple of weeks, I've had to heat the inside of my PC with a hair dryer to get it to boot in the morning. Yesterday I finally tracked down the bad caps to ones on the K6-2 cpu addaptor board and changed them out. Looks like I can put the cover back on the PC now :-)

72,  
Steve, KD1JV  
"Melt Solder"  
White Mountains of New Hampshire  
<http://www.qsl.net/kd1jv/>

-----  
Date: Fri, 7 Feb 2003 11:29:32 -0600  
From: "J. Michael Thurman, WN5T" <jmthurman@centurytel.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [145899] Tuna Tin 2 with feathers?

Message-ID: <NNEGKHLPLGLAHOFDBJMKEEECDAA.jmthurman@centurytel.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Greetings...

I have just pulled the Tuna Tin 2 out of the moving boxes and completed it. It even transmits! So far, so good. However, it produces a scoop or glissando into the note when it is keyed using a straight key. It also produces some serious clicking just off frequency. Could any of you tell me how to remedy this?

I am new to QRP and to building tx/rx systems...any help will be appreciated.

Tks and 73  
Michael  
WN5T

-----  
Date: Fri, 07 Feb 2003 12:27:37 -0500 (Eastern Standard Time)  
From: W2AGN <w2agn@w2agn.net>  
To: w5yr@att.net, qrp-1@Lehigh.EDU  
Subject: [145900] Re: 4th Twofer in a row!  
Message-ID: <3E43EC89.00000B.18753@w2agn>  
MIME-version: 1.0  
Content-type: Text/Plain  
Content-transfer-encoding: 7BIT

-----Original Message-----

From: George, W5YR  
Date: Friday, February 07, 2003 11:53:02 AM  
To: w2agn@w2agn.net; Low Power Amateur Radio Discussion  
Subject: Re: 4th Twofer in a row!

>>Also managed to work Don despite the problems. Heard you, too, John with a good signal down here in Pesky Texan land.

I thought that the guys on Don's frequency were sending "QSY" and "QRL" but evidently it was "QSL" so I'd better sharpen up on code receiving.

Me too, I also copied QSY and QRL. Guess we need to practice more, George.. or could it be the dreaded...dare I say it?...E\*R W\*X?????

>>

Like you, I ran the entire Hunt with everything set "wide open" on the Icom PR02. I don't know how it works that way, but in the 2.5 years that I have operated an Icom PR0 and now the PR02 and the 13 years I have operated my 765, I can never recall ever turning off the AGC or even touching the "RF" gain controls. Guess I have been missing a lot by such inept operating . . .

Or, do you suppose that some radios are designed with effective AGC systems and decent front ends that preclude having to diddle with the "RF" gain and crank in attenuation in order to work?

I dunno. Funny the only rigs I have to crank in attenuation with, or ride the RF gain are the SG-2020, QRP+ and the FT-817. Never have a problem with any of the others.

.

+-----+ John L. Sielke  
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]  
+-----+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

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Date: Fri, 07 Feb 2003 17:30:58 +0000  
From: k4vib@att.net  
To: qrp-l@lehigh.edu  
Subject: [145901] Re: Transistor Input Impedance  
Message-ID: <200302071731.h17HV5Ix021726@rain.CC.Lehigh.EDU>

Thanks for the replys everyone.

I guess what I'm after is input impedance..so I can build the transformer for the preceeding stage. I know what power out of the stage I'm looking for but I have no idea what the input impedance of the next stage is.

Are there general rules of thumb for the input impedance say of a class A driver stage...and a class C PA stage? I notice on the SW++ series of radios there is a 10ohm base resistor to ground on the PA stage. Does this set the PA input stage impedance to 10 ohms?



Thanks for helping me to understand this.

Bill  
K4VIB

-----  
Date: Fri, 7 Feb 2003 12:46:45 -0500  
From: "brian" <brian@iquest.net>  
To: "Flying Pigs" <fpqrp-1@fpqrp.com>, "QRP-L" <qrp-1@Lehigh.EDU>  
Subject: [145902] 10 Turn Pots are GONE  
Message-ID: <001501c2ced0\$e48dc190\$0c64030a@bmurrey2K>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I only had 8 to sell, they went like this:

2 to WB8ICN  
2 to KC8USU  
2 to WA7TQK  
1 to KJ0C  
1 to WA7ZYQ

Thanks!

=====  
KB9BVN/QRP - New Whiteland IN - EM69WN  
QRP-ARCI #10223 QRP-L #1540 FIST #5695  
FISTS CC #764 - Proud Member ARRL  
HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W  
INTO INFAMOUS AF4PS ATTIC DIPOLE  
SOC #400 AND FLYING PIGS QRP #-57  
=====

-----  
Date: Fri, 7 Feb 2003 09:54:48 -0800 (PST)  
From: Lloyd Lachow <llachow@yahoo.com>  
To: a low-energy group <qrp-1@lehigh.edu>  
Subject: [145903] FOX: 4th Twofer in a row!  
Message-ID: <20030207175448.46418.qmail@web41015.mail.yahoo.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

W2AGN (w2agn@w2agn.net) wrote:

"BTW, I did this hunt with the K1. Worked great, no problem with no split VFO since the RIT/XIT works terrific. Ideal for fox hunt, or DX. Never used the attenuator, and no RF gain, so I guess I was just lucky."

Well, all I have is a K1 and a random wire, and I have 23/28 pelts, to date, with it...two of which were missed because I foolishly scheduled my anniversary dinner with my bride on our actual anniversary, 1/9.

Am I "just lucky?" Hell, no! The K1 is a fabulous rig, particularly when operated with patience and skill.

Of course, you all may not have known of my rate of pelt-bagging, as I haven't the compulsion to report each thought and activity that occurs in my shack relative to the Fox Hunt...

=====

73, 72 es oo, Lloyd, K3ESE  
K1 # 00379 - 20/40M Rock-Mites - Hunk o' Wahr  
ARRL - ARS #1301 - FISTS #8774 - WATPK #8  
FPqrp #476 - QRParci #11147  
QRP-L #2415 - SOC #530  
Fun = Skill / Power  
"You can't spell Lloyd without lol!"

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Do you Yahoo!?  
Yahoo! Mail Plus - Powerful. Affordable. Sign up now.  
<http://mailplus.yahoo.com>

-----  
Date: Fri, 7 Feb 2003 10:09:58 -0800  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145904] Re: Is digital moving in  
Message-ID: <005501c2ced4\$208d1260\$7c20b3d1@tjacobs>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The only problem that I have with the "digital" stations is that they seem to be deaf! There's no "QRL?" for these guys, and I can't count the number of times lately that I've been in a QSO and had some digital op start a QSO right on top of us! Mostly right around 7.038 to 7.043 which is where I tend to listen for CQs from other ops when in the shack. Was on one night calling CQ and some guy kept following me around the band with his annoying digital!!! And, yes I know that 7.040 is the DX calling frequency for RTTY, but in the past these guys have stayed further up the bands except during the contests for the most part. Seems to be a lot more common lately to hear them below 7.040 and 14.060. Hopefully when 40 meters is sorted out and the world has a single band, this will be less of a problem on 40. Doesn't seem right for Digital and CW to be lumped into the same sub band.

73's Trev KG6CYN  
<http://home.earthlink.net/~kg6cyn>  
<http://www.qsl.net/kg6cyn>

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Date: Fri, 07 Feb 2003 13:36:44 -0600  
From: Chuck Carpenter <w5usj@9plus.net>  
To: qrp-l@lehigh.edu, QRPp-I@yahoogroups.com,  
Rock-Mite\_Group@yahoogroups.com  
Subject: [145905] Update: RF Probe Experiments  
Message-ID: <3.0.2.32.20030207133644.007dc8a0@mail.9plus.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

The previous message about RF Probes and Reality, included 3 models for use with various DVMs, VTVMs and VOMs. Thanks for the inputs and comments.

The models were developed as a place to start and not intended as a final design. Note that RF Probes measure apparent power. Only clean sinewave signals will produce the desired reading\*\*. Signals with harmonic and/or distorted waveform content can produce a misleading reading.

Additional information about probes built and tested with various meters is included in this update message. Final calibration must be done with the meters to be used.

Two changes were made in the original information: VTVM's should be included in the 10 M Ohm input Z category (11 M Ohms if the 1 M isolation probe is used). The probe model for 10 M Ohm Z used a 3.6 M Ohm resistor. The example included should be a 3.3 M Ohm and 330 k in series not 33 k.

All probes follow the same basic construction. .001 series input cap, shunt germanium diode (+ output) and series scaling resistor.

--10 M input Z case: Micronta (RS) model 22-185 DVM  
3.6 M Ohm resistor (3.3 M and 330 k)

Compared closely to power measured with Welz SP-15M on 2.5 W scale with 51 Ohm dummy load. Load checked with MFJ-259 = 51 Ohms 7 - 50 MHz.

VTVMs (correctly adjusted) Use the 10 M Z case probe (w/o 1 Meg probe).

--1 M input Z case\*\*\*: CEN-TECH P35761 DVM (Harbor Freight \$9.95)  
375 k Ohm resistor (330 k and 475 k)

Within 5% of voltages measured with 10 M Ohm probe.

--240 k input Z case: Triplet 630 VOM 20k Ohms/Volt 12 V DC scale  
91 k Ohm resistor (82 k and 10 k in series) See range scaling below

Within 5% of voltages measured with 10 M Ohm probe.

Scaling VOM (20 k Ohms/Volt ONLY) Measurement Ranges:

If you have a VOM with other than a 12 V range, you can scale the resistor using ratio and proportion arithmetic.

Example:

15 V scale, 20 k Ohms/Volt Z = 300 k Ohms

$240:91=300:x$

$240x=27300$  (product of means = product of extremes)

$x=27300/240=113.75$  k use closest standard values

10 V scale, Z = 200 k Ohms

$240:91=200:x$

$240x=18200$

$x=18200/240=75.83$  k use closest standard values

Info received on one DVM said that the input Z is 22 Meg Ohms. Your task -- if you choose to take on the assignment -- is to determine the scaling resistor needed compared to the 10 Meg Ohm case.

\*\*A properly used oscilloscope would be helpful to analyze waveform content. A spectrum analyzer would be much better. But how many have these in their shacks? A good output filter will help but does not guarantee a clean signal.

\*\*\*A 1 M Ohm resistor was connected in series with the DVM and provided a voltage about 1/2 that without the resistor. You can use a similar approach to finding the input Z of any DVM. The really low-cost meters tend to have lower input Z than the more expensive ones.

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1  
Rock-Mites on 80, 40, 30, 20 and 15 Meters  
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57  
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

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Date: Fri, 7 Feb 2003 13:37:10 -0600  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: <qrp-l@Lehigh.EDU>  
Subject: [145906] Fw: Let's cheer up a long time reflector member  
Message-ID: <000701c2cee0\$4e73e710\$4e100a0a@rohredt2000>

George provided the address Bruce Muscolino has, while in dialysis.

Heaped upon his other problems that had left him bedridden, this must be a hard time for anyone. Please do as I have done, and pick up a get well or Encouragement card for Bruce and send it to the below address.

If you were sick, wouldn't you feel better if you got 1,000 or more cards?  
It should brighten up the whole facility!  
72,  
Stuart K5KVH

> Mr. Bruce Muscolino, W6TOY Room #219  
> C/O ManorCare Health Services  
> 11901 Georgia Avenue  
> Silver Spring, Maryland 20902

-----  
Date: Fri, 7 Feb 2003 12:04:27 -0800

From: "N4LGH" <n4lgh@waveguide.us>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [145907] RE: Is digital moving in  
Message-ID: <GNEOLGDJDPEALHJMKLCKEDPDHAA.n4lgh@waveguide.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I think some of us are looking at this similar to the way hams viewed SSB when it was first introduced. Read the old QST articles - there were guys that swore SSB would destroy amateur radio 'as we know it.'

Yup, and it is NECESSARY!

"As we know it" changes with every facet of our lives. We all know "how things used to be."

Amateur radio is a dynamic 'hobby' / service or whatever you want to call it. Change is a necessity for us. As individual human beings, we resist changes. As a whole race, a united community, we are growing and growth sometimes hurts.

Tinkering falling off? NO WAY!! There are way more guys fiddling with soldering irons today than a few years ago. And why? Because DIGITAL is easy to get into, and productive and FUN. We all got stuck on radio, and the whole 'wow' of making something that talks to someone somewhere. They got into the 'wow' of a digital communication.

Who cares what 'wowed' someone into ham radio? As long as we keep some activity on the bands we want to keep what does it matter what mode that activity is? Matter of fact, we should be thankful for these digital ops taking up band space as their activity may well be what keeps our allocations on many bands.

I got into QRP because I was totally awed by the efficiency of one antenna over another. Some of you got into QRP because it's a minimalist way to communicate. Some of you are into QRP because low power rigs are generally easier to build. Some of you got into QRP because low power communication accommodates digital experimenting nicely.

The new technologies should be embraced and not feared / shunned / complained about / intimidated by / insulted. I've seen more kids get involved in some way in amateur radio because of these new modes / technologies than I have in years. Sun spots don't turn on the kids - IRLP and PK31 does. They are computer oriented - and want to do new things with their computers. Look at IRC chat - they want to communicate with their computers.

I think we should look at these digi kiddies similar to how we look at CB'ers - not exactly our speed but definitely a pool of candidates to induct into our ranks. Some of these kids are highly technical and can contribute quite a lot to our hobby.

I don't mean to get on a soapbox. I'd just like to see us encourage ANY qrp operation - mode regardless.

I'm wearing my imitation asbestos. Hoping that all you guys use QRP flamethrowers!  
Tracy N4LGH

-----  
Date: Fri, 07 Feb 2003 21:21:11 +0000  
From: "Harry T. Hurst" <wa3ptg@comcast.net>  
To: qrp-l@Lehigh.EDU  
Subject: [145908] HB - LM1350s  
Message-ID: <1044652872.1415.2.camel@daisy.our>  
MIME-version: 1.0  
Content-type: text/plain  
Content-transfer-encoding: 7BIT

Where can I buy LM1350s? Holtzfelt no longer carries them.

Thanks  
Hap, WA3PTG  
Wilmington DE

-----  
Date: Fri, 07 Feb 2003 16:23:04 -0500  
From: Ed Tanton <n4xy@earthlink.net>  
To: QRP-L Reflector <qrp-l@lehigh.edu>,  
noGA reflector <nogaqrp@mailman.qth.net>  
Subject: [145909] Fwd: [Antennas] windowed ladder line vs. true open wire line  
Message-ID: <5.2.0.9.2.20030207162124.02f11580@pop.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

THIS is worth looking at...

>Wes Stewart has done an analyses on window line which was published in the  
>ARRL's Antenna Compendium. For those interested in the line's wet and dry  
>properties you can read Wes's draft of his article at  
>[http://users.triconet.org/wesandlinda/ladder\\_line.pdf](http://users.triconet.org/wesandlinda/ladder_line.pdf)  
>  
>73  
>Danny, K6MHE  
>

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY  
189 Pioneer Trail  
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by  
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;  
SEDXC NCDXA GACW QRP-ARCI  
OK-QRP QRP-L #758 K2 (FT) #00057

-----  
Date: Fri, 7 Feb 2003 15:41:57 -0600  
From: Edgar R Guillot <n5ed@juno.com>  
To: qrp-l@Lehigh.EDU  
Subject: [145910] Band Switches  
Message-ID: <20030207.154157.2940.0.N5ED@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Anybody knows a source for band switches, new or used? Or how do you  
avoid them?

N5Ed Guillot  
Cajun Country  
near New Orleans  
SOC #535  
ARRL Life Mem.

-----



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-----  
Date: Fri, 7 Feb 2003 15:57:27 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: <hamjoel@juno.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [145911] Re: New Zeland Falls  
Message-ID: <Pine.LNX.4.33.0302071557090.12102-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

what's your new antenna please Joel?...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -  
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

On Fri, 7 Feb 2003 hamjoel@juno.com wrote:

> High y'all  
> WORKED ZL4IR IN SOUTH ISLAND NEW ZELAND AT 5 WATTS SSB ON FORTY METERRS  
TONITE.... THE NEW ANT MIGHT BE WORKING....  
>  
> KE1LA, JOEL  
> MAINE  
>  
>  
> KE1LA JOEL  
> IN MAINE  
> FREEZIN  
>  
>  
> -----  
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>

-----

Date: Fri, 07 Feb 2003 16:59:51 -0600  
From: Chuck Carpenter <w5usj@9plus.net>  
To: k5di@zianet.com,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145912] Re: FOX: Triple but hard work!  
Message-ID: <3.0.2.32.20030207165951.007ee5a0@mail.9plus.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Good one Karl,

Heard you take that contact away from Don Wines, K5DW!

>Don called k5dw? and sent his numbers and again said k5dw? bk. I came  
>back with de k5di k5di 559 NM KARL 5W de k5di k5di bk. Don came back  
>with bk k5di TU... and this happened at 0244. I had the second Pelt!

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1  
Rock-Mites on 80, 40, 30, 20 and 15 Meters  
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57  
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

-----  
Date: Fri, 7 Feb 2003 15:17:21 -0800  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145913] Wayne NB6M/MM on 20 meters near Mulge, Mexico  
Message-ID: <007801c2ceff\$116e0340\$7c20b3d1@tjacobs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gang,

Just had the pleasure of working Wayne NB6M/MM on 20 meters (14.060)  
near Mulge, Mexico (23:00 UTC)! Bet you can guess which rig he was using  
Hi! He was using an SMK-1 modified for 20 Meters at about 1 watt out!  
Way to go Wayne. Anyway, he had to shut down for right now but will try  
to get on later. Says he's having a great time and eating lots of clams  
and other sea food. Had a pretty good signal into Burbank too! Anyway,  
if you're on 20 take a listen for him.

73's Trev KG6CYN  
<http://home.earthlink.net/~kg6cyn>

<http://www.qsl.net/kg6cyn>

-----  
Date: Fri, 7 Feb 2003 15:19:21 -0800  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [145914] Re: Wayne NB6M/MM on 20 meters near Mulege, Mexico  
Message-ID: <008401c2ceff\$59319840\$7c20b3d1@tjacobs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

That's Mulege, Mexico.... ;-)

----- Original Message -----  
From: Trevor Jacobs <kg6cyn@earthlink.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Friday, February 07, 2003 3:17 PM  
Subject: Wayne NB6M/MM on 20 meters near Mulge, Mexico

> Hi Gang,  
>  
> Just had the pleasure of working Wayne NB6M/MM on 20 meters (14.060)  
> near Mulge, Mexico (23:00 UTC)! Bet you can guess which rig he was  
using  
> Hi! He was using an SMK-1 modified for 20 Meters at about 1 watt out!  
> Way to go Wayne. Anyway, he had to shut down for right now but will  
try  
> to get on later. Says he's having a great time and eating lots of  
clams  
> and other sea food. Had a pretty good signal into Burbank too! Anyway,  
> if you're on 20 take a listen for him.  
>  
> 73's Trev KG6CYN  
> <http://home.earthlink.net/~kg6cyn>  
> <http://www.qsl.net/kg6cyn>  
>  
>

-----  
Date: Fri, 7 Feb 2003 18:24:57 -0500

From: Rick McKee <kc8aon@juno.com>  
To: fpqrp-1@mpna.com, qrp-1@Lehigh.EDU  
Subject: [145915] Trip to Troy  
Message-ID: <20030207.182503.8934.2.kc8aon@juno.com>

Hey Gang,

I gotta go to Troy, Ohio for some training the week of Feb 24th thru the 28th, anyone know of some ham toy stores that are open in the evenings in the area, and does anyone live close enough to meet me for a cup of coffee in the evening and have an eyeball qso ?

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio  
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Surplus GRC 109 RX

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QRP-L #2112, FPqrp #33, AR QRP #269

"A clear conscience is most likely the result of a poor memory"

---

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---

Date: Fri, 7 Feb 2003 16:47:42 -0700 (MST)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: Chuck Carpenter <w5usj@9plus.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [145916] Re: FOX: Triple but hard work!  
Message-ID: <Pine.LNX.4.44.0302071645320.2655-100000@bucket.dog>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Will not happen again, ... soon. I was not aware there was a k5dw but I am now. I will let Don make the contact...:-)

On Fri, 7 Feb 2003, Chuck Carpenter wrote:

> Good one Karl,  
>  
> Heard you take that contact away from Don Wines, K5DW!  
>  
> >Don called k5dw? and sent his numbers and again said k5dw? bk. I came  
> >back with de k5di k5di 559 NM KARL 5W de k5di k5di bk. Don came back

> >with bk k5di TU... and this happened at 0244. I had the second Pelt!  
>  
>  
>  
> Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1  
> Rock-Mites on 80, 40, 30, 20 and 15 Meters  
> QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57  
> Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>  
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

-----  
Date: Sat, 8 Feb 2003 01:11:17 +0100  
From: "Johan Smet" <johan\_smet@pandora.be>  
To: <qrp-l@lehigh.edu>  
Subject: [145917] QRP DXCC  
Message-ID: <EIELKLLAKHJMDPPKMKALKEDHCNAA.johan\_smet@pandora.be>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gents,

I'm trying to trace ON-entries in the QRP DXCC award. These guys deserve a mention in our ON "QRP corner". I surfed and surfed [www.arrl.org](http://www.arrl.org), does anyone know how to obtain an updated QRP DXCC award list?

73,

Johan ON5EX

-----  
Date: Fri, 7 Feb 2003 18:09:30 -0700  
From: "Chris Trask" <chrisrask@earthlink.net>  
To: <ianmwilson@earthlink.net>,  
                "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145918] Re: Dual-gate FETs  
Message-ID: <007c01c2cf0e\$bc5e8cc0\$a90c9a40@default>  
MIME-Version: 1.0  
Content-Type: text/plain;



-----  
Date: Fri, 7 Feb 2003 19:11:22 -0600  
From: "Jay Henson" <aj4ay@worldnet.att.net>  
To: "QRPL" <qrp-1@lehigh.edu>, "Flying Pigs" <fpqrp-1@mpna.com>  
Subject: [145919] Truffle  
Message-ID: <005201c2cf0f\$00368fb0\$d874560c@jay>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

All,

That was a very intense 30 minutes. After I got my K2 straightened out (messed up the split right off the bat), I worked fairly steady for the rest of the time. I had a few brain/finger disconnects but recovered. There were a couple of periods when all of the hounds just disappeared. After making sure the K2 still had power and I had not botched the VFO's again, they reappeared. I guess it was some very fast and deep QSB.

I want to express my sincerest thanks to all of you that make this so much fun. I appreciate the opportunity to be on the receiving end of your calls and wish that I could have put everyone in the log. That would have been a real treat.

Now to the summary. 27 Q's and 14 SPC's and I am happier than a pig in the mud. I now know how the PT's (pesky Texans) get all of those fox sweeps now. They come out in force for the truffle hunt. That excites all of those electrons floating around in the ether over Texas and makes communications in/out of TX a lot easier. I have 9 TX entries in the log from last night.

If there are any corrections, please forward them direct to me.

Thanks again and I look forward to doing it again next year.

72

Jay

AJ4AY

Mobile, AL

QRPL 1372, ARCI 8131, FISTS 7917, FP -115, SOC 220

0132	WA9TZE	579	WI	JIM	417
0133	N9NE	569	WI	TODD	5W
0134	W5YR	559	TX	GEORGE	404

0135	K3ESE	559	MD	LLOYD	476	
0137	K5JHP	559	TX	BILL		5W
0138	AB5XQ	559	AR	BILL		5W
0139	K5CR	559	TX	DALE		5W
0140	K5AIC	599	TX	HERB		5W
0141	N5ZE	559	TX	LEW		5W
0142	W5TB	559	TX	DOC		5W
0143	K4BYF	559	FL	JACK		3W
0144	NN5E	559	TX	VERN		5W
0145	KB9YIG	559	IN	TONY	500mw	Nice signal
0146	AC5JH	559	OK	TOM	530	
0147	K8CV	559	FL	WALT	541	
0148	K5DI	559	NM	KARL	5W	
0149	K0PC	559	MN	PAT	5W	
0150	W9HL	559	IL	RANDY	382	
0151	K5OT	559	WI	LARRY	3W	
0152	KK5NA	559	TX	JOE	246	
0153	KC9LC	559	VA	RANDY	5W	
0154	W0CH	559	MO	DAVE	32	
0155	W5USJ	559	TX	CHUCK	5W	
0156	WE9K	599	WI	GLENN	436	
0157	K4FB	559	FL	PAUL	124	
0158	N1TP	559	FL	TOM	5W	
0159	NA8M	559	MI	JOHN	5W	

-----

Date: Fri, 07 Feb 2003 20:17:03 -0500

From: Ed Tanton <n4xy@earthlink.net>

To: n5ed@juno.com,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [145920] Re: Band Switches

Message-ID: <5.2.0.9.2.20030207195642.02bfc120@pop.earthlink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

There are a couple of alternatives: 1) you use something like a 1-of-10 decoder to select a given relay(s) that switches in the appropriate tank circuit. But using that method is like using thumbwheel switches (another alternative) since you always have to cycle up or down. 2) you use an inexpensive 10 position switch to select which of those same relays you want (for a given band tank circuit.)

There are plenty of surplus switches available. Talk to Allen Bond, WB4GNT



at <<http://www.mgs4u.com>>. Allen sells used and surplus parts, and I think he has some appropriate switches. Also, Ocean State Electronics <[http://www.oselectronics.com/ose\\_p72.htm](http://www.oselectronics.com/ose_p72.htm)> has 12 position, single pole, rotary switches for about \$3.00 . This is about the same switch you would have found at 'Shack when they had parts. Dan's Small Parts <<http://www.danssmallpartsandkits.net/>> has single pole 11 position switches for \$1.50.

All you have to do to implement these is get some small SPST relays and cut in the tank circuit you want using the rotary switch. It's not the kluge it may sound like. Using lengthy, multi-pole, rotary switching; with the longer leads and component tuning problems is really the kluge. I even have a nice little circuit to change a bi-color LED from green to red as its associated relay is selected.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY  
189 Pioneer Trail  
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

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LM: ARRL QCWA AMSAT & INDEXA;  
SEDXC NCDXA GACW QRP-ARCI  
OK-QRP QRP-L #758 K2 (FT) #00057

-----  
Date: Fri, 7 Feb 2003 17:25:41 -0800  
From: Bob Nielsen <nielsen@oz.net>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [145921] Re: Upcoming DXpedition to KG4  
Message-ID: <20030208012541.GA26842@n7xy.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline

In addition, KG4IZ has been active recently. I worked him Feb 4 on 20 CW.

Bob, N7XY

On Fri, Feb 07, 2003 at 08:32:39AM -0800, Alan Kaul, W6RCL wrote:

> This is from the ARRL weekly DX note....

>

> This prefix is activated (at most) only once or twice a year -- so if you  
> haven't worked it, it ought to be possible from most of the USA during the  
> contest.

>

> GUANTANAMO BAY, KG4. Members from the Virginia DX Century Club will be  
> active from February 11 to 19. Look for KG4ZK, KG4NW, KG4EC and KG4ZO. QSL  
> via W4ZYT, N8CH, KU4EC and N6Z0, respectively. Their activity will include  
> participation as KG4DZ in the ARRL DX CW Contest. QSL KG4DZ via W4SD.

>

> Good luck!

>

> Alan Kaul, W6RCL, LaCanada, CA

> w6rcl@amsat.org

> <http://home.att.net/~alan.kaul/index.html>

>

--

Bob Nielsen, N7XY

Bainbridge Island, WA

IOTA NA-065, USI WA-028S

[n7xy@n7xy.net](mailto:n7xy@n7xy.net)

<http://www.n7xy.net>

Date: Fri, 7 Feb 2003 20:14:05 -0500

From: Rick McKee <[kc8aon@juno.com](mailto:kc8aon@juno.com)>

To: [qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)

Subject: [145922] Re: Fw: Let's cheer up a long time reflector member

Message-ID: <20030207.202306.4038.2.kc8aon@juno.com>

Or better yet ! How about sending him a get well QSL card ? If I was a  
ham on the mend, I would rather see a bunch of QSL cards arrive instead  
of the normal garden variety get well cards ! Just turn it over and  
write a short note to him with a few words of encouragement... Something  
to ponder !

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio

SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Surplus GRC 109 RX

Power is for punks ! QRP is for the confident !

QRP-L #2112, FPqrp #33, AR QRP #269

"A clear conscience is most likely the result of a poor memory"

On Fri, 7 Feb 2003 13:37:10 -0600 "Stuart Rohre" <[rohre@arlut.utexas.edu](mailto:rohre@arlut.utexas.edu)>  
writes:

>George provided the address Bruce Muscolino has, while in dialysis.

>  
>Heaped upon his other problems that had left him bedridden, this must  
>be a  
>hard time for anyone. Please do as I have done, and pick up a get  
>well or  
>Encouragement card for Bruce and send it to the below address.  
>  
>If you were sick, wouldn't you feel better if you got 1,000 or more  
>cards?  
>It should brighten up the whole facility!  
>72,  
>Stuart K5KVH  
>  
>  
>  
>> Mr. Bruce Muscolino, W6TOY Room #219  
>> C/O ManorCare Health Services  
>> 11901 Georgia Avenue  
>> Silver Spring, Maryland 20902  
>  
>  
>

---

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Date: Fri, 7 Feb 2003 19:50:40 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,  
"Elecraft" <elecraft@mailman.qth.net>, <icom@mailman.qth.net>  
Subject: [145923] Swap Elements?  
Message-ID: <028001c2cf14\$7cc0c960\$0201a8c0@fairviewtx.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have a couple of elements for my Bird 43 that I no longer use and  
would like to trade.

Specifically, they are the

25D            25 watts       200-500 MHz       and

100D      100      "                      "                      "

I would like to exchange either or both of these for either of both

50H              50 watts              2 - 30 MHz              or

100H      100      "                      "                      "

If anyone has either the 50H or 100 H and is interested in trading,  
either or both, please contact me off-list.

Thanks, folks.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

Fairview, TX 30 mi NE of Dallas in Collin county EM13QE

"In the 57th year and it just keeps getting better!"

-----  
Date: Fri, 7 Feb 2003 17:56:41 -0800  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145924] Digital on 40 meters  
Message-ID: <013001c2cf15\$534fd980\$7c20b3d1@tjacobs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Boy, speaking of Digital on the bands, 40 meters is solid RTTY tonight!  
Is there a contest this weekend? Time to do something else I guess...

73's Trev KG6CYN

<http://home.earthlink.net/~kg6cyn>

<http://www.qsl.net/kg6cyn>

-----  
Date: Fri, 07 Feb 2003 20:58:41 -0500

From: Pete Burbank <plburbank@earthlink.net>  
To: qrp-1@lehigh.edu  
Subject: [145925] More on capacitors  
Message-ID: <5.2.0.9.0.20030207203117.00a21120@Earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Dear Gangue,  
Recently I have been doing some work on old receivers. Some of this info is common knowledge to the boat anchor guys so I was curious and built a capacitor leakage tester. It puts 0 to 400 Volts on the C and reads down to 1 uA. I tested about 25 "Black cats" and 6 pink "Tiny Chiefs" from an old Hallicrafters rcvr.  
The leakage was really high on every one, some up to 10 uA at 50 V. Then I tested about 30 poly film caps and you could see the charging current but leakage was nil after that. A friend tells me that it is common practice to "recap" old receivers and now I see why.  
Don't ask for a circuit on this tester as I would not want to be responsible for shocking anyone.

73  
Pete "one hand in his pocket"  
NV4V  
Ky

-----  
Date: Fri, 7 Feb 2003 18:12:44 -0800  
From: "Ward Silver" <hwardsil@centurytel.net>  
To: <qrp-1@lehigh.edu>  
Subject: [145926] Re: Transistor Input Impedance  
Message-ID: <051701c2cf17\$91555000\$7ca9fea9@MRKNOWITALL>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Like most technical questions, the answer begins, "It depends..."

If you are trying to find the input impedance for an amplifier circuit, the answer depends on the configuration of the amplifier and the values of the various resistors and loads.

For a common-emitter amplifier using a normal NPN transistor (like the 2N2222 or 2N3904) and a bypassed emitter resistance, the input impedance of the amplifier is usually pretty close to the value of  $r_{sub-ie}$ , which is a transistor parameter. You can use 1-2 kohms as a first guess and not be too far off. The real value depends on collector current and the value of the biasing resistors. It also depends on the value of any coupling capacitor at the input and the frequency. The formula you quoted is also not terribly far off.

For common-collector (i.e. - emitter follower) amplifiers, the first guess approximation is  $\beta \times$  the value of the emitter resistor and then that value in parallel with any biasing resistor impedance. It's much higher than a common-emitter amplifier and can be upwards of 20 kohm.

If you're actually looking for transistor base impedance, then look for the  $r_{sub-ie}$  values in the transistor data sheets.

73, Ward NOAX

> Does transistor input impedance = input resistance?? I saw a formula  $26$   
>  $(\beta)/I_e$  for input resistance. Does this hold true for common collector  
as  
> well as common emitter configurations?  
>  
> I'm finally starting to understand how to figure out the gain needed in  
each of  
> my transmitter stages but am stumped on how to figure out the input  
impedance  
> of the transistors.  
>  
> Thanks,  
>  
> Bill  
> K4VIB

-----  
Date: Fri, 7 Feb 2003 20:15:54 -0600  
From: "Don Wines" <dwines@tyler.net>  
To: "QRP-L LIST" <qrp-l@lehigh.edu>  
Subject: [145927] Re: Triple but hard work!  
Message-ID: <007301c2cf18\$02cab900\$e8034c42@coxinternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"

Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Karl F. Larsen" <k5di@zianet.com>

>.....

> There I called a few times and

> Don called k5dw? and sent his numbers and again said k5dw? bk. I came

> back with de k5di k5di 559 NM KARL 5W de k5di k5di bk. Don came back

> with bk k5di TU...

Hi Karl,

Don, NK6A, was working (or attempting to work) me K5DW. Here's how the exchange went:

NK6A: K5DW?

Me: K5DW K5DW BK

NK6A: K5DW 559 CA DON 5W K5DW BK.

I then attempted to send my exchange but appearently you jumped in and picked him off at that point because he came back with K5DI TU QRZ. No harm done because I was able to work him again 10 or 15 minutes later for the pelt.

But...Fox hunt etiquette says that if it's not your call on the front and back of the Fox's exchange...you don't call him back. If he doesn't hear anyone come back to him, he will send: CALL? At that point you can send your call if it is similar and go ahead and work the Fox for the pelt.

Just be aware that there are other calls out there similar to yours and you're not the only K5D? pounding the paddles trying to get a pelt.

> I fear Don had his receiver preamp on and AGC on and 10 db attenuator  
> off. He is having trouble working the strong guys too.

I'm sure Don knows how to operate his station much better that you do.

72

Don, K5DW

k5dw@arrl.net

QRP-L #2083 QRP-ARCI #10145 NETXQRP #3 EM22gm

Visit the NETXQRP Web Site at <http://www.netxqrp.org>

-----

Date: Fri, 07 Feb 2003 20:24:38 -0600  
From: Monty N5ESE <n5ese@io.com>  
To: qrp-l@Lehigh.EDU  
Subject: [145928] Re: QRP-L digest 2824  
Message-ID: <5.1.0.14.1.20030207202433.00a09060@mail.io.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 19:03 02/07/2003 -0500, you wrote:

>Date: Thu, 06 Feb 2003 16:37:04 -0800  
>From: Bob W7AVK <rsrolfne@atnet.net>  
>To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
>Subject: [145855] Help with SMT kit  
>Message-ID: <3E42FFB0.3114A5C2@atnet.net>  
>MIME-Version: 1.0  
>Content-Type: text/plain; charset=us-ascii  
>Content-Transfer-Encoding: 7bit  
>  
>Hello - I may have gotten myself in a bit too deep.  
>I've just received from KD1JV his audio filter / amplifier kit  
>addition to the ROCKMITES. I'm looking forward to  
>mating this with my RM-40 but find I'm not that sure of  
>myself with SMT parts as I've just gone through a  
>pair of cataract procedures.  
>  
>Might there be anyone who would put this fine little kit  
>together for me? I'll be glad to support your efforts.  
>  
>Thanks  
>  
>72 Bob W7AVK  
>K2 s/n 1414, K1 s/n 051

Monty Northrup, N5ESE (ex-N5FC)  
Austin, Texas  
e-mail: n5ese@io.com  
web page (ham): <http://www.dit-dididit-dit.com>  
web page (home): <http://www.io.com/~maddog>

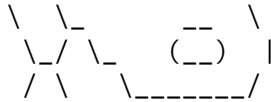
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ZZZZ





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Date: Fri, 7 Feb 2003 19:29:45 -0700  
From: "Chris Trask" <chistrask@earthlink.net>  
To: "Ian Wilson" <ian@trabucotech.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145929] Re: Dual-gate FETs  
Message-ID: <00a201c2cf19\$f2d9fea0\$a90c9a40@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

On Friday, February 07, 2003 6:37 PM, Ian Wilson wrote:

>  
> Interesting bibliography. I've had some luck locating Motorola  
> App Notes before (especially the classical power amplifier ones),  
> but haven't had any luck finding these. I suppose this is a  
> representation of the dodo-character of these interesting devices,  
> unfortunately. I'll keep an eye out for books of the appropriate  
> vintage at swap meets. In the meantime, anyone have a pointer to  
> an on-line reference that explains the basic DC characteristics?  
> (Knew I should have renewed my IEEE membership all those years  
> ago:) ).  
>

Ian,

There's actually very, very little on the subject of dual-gate FET's to be found in textbooks. The only two that I'm aware of are:

Alley, C.L. and K.W. Atwood, "Electronic Engineering, 3rd ed.,"  
Wiley, 1973, pp. 186-192.

Lenk, J.S., "Manual for MOS Users," Reston, 1973.

Lenk has a number of different areas regarding DGFETs, including RF amplifiers and is probably the best text to go looking for. The Alley and Atwood text is well done, being at that point in time where you still had to understand both tubes and transistors.

From my bibliography, the application notes worth locating are:

Baar, L.S., "RF Applications of the Dual-Gate MOS FET Up to 500 MHz," RCA Application Note AN-4431.

Trout, B., "Small-Signal Design with Dual-Gate MOSFETs," Motorola Application Note AN-478A.

As well as one trade journal article:

Reich, S., "MOS FET Biasing Techniques, EEE, Sep 1970, pp. 62-68.

There must be something from Ham Radio, but I do not have the URL for the full index that has been posted on this list from time to time.

I've used DGFETs for mixers and variable gain amplifiers. They are very quiet as mixers (couple the LO to gate 2), but terribly nonlinear, same as for VG amps, so I have been giving them less consideration. They are, however, very convenient. Philips and Toshiba still make them as they find a lot of application in the front end of consumer TV sets.

Chris

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      / extinct stuff, anyhow? \
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High Performance Mixers and  
Amplifiers for RF Communications

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: [chistrask@earthlink.net](mailto:chistrask@earthlink.net)  
<http://www.home.earthlink.net/~chistrask>

Graphics by Loek Frederiks

-----  
Date: Fri, 7 Feb 2003 21:15:26 -0600  
From: Nick Kennedy <[nkennedy@tcainternet.com](mailto:nkennedy@tcainternet.com)>  
To: "'k4vib@att.net'" <[k4vib@att.net](mailto:k4vib@att.net)>,  
Low Power Amateur Radio Discussion <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Subject: [145930] RE: Transistor Input Impedance  
Message-ID: <01C2CEEE.09814400.nkennedy@tcainternet.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

That Class C stuff is a tough nut for those of us searching for mathematical methods to use in design.

Matching to the input of a class C amp seems to be highly empirical with lots of rules of thumb. SSDRA, for instance, says a 10 to one link off the tank of the driving stage is a good starting point. And it also talks about assuming a certain gain in the class C stage and working backwards to see how much drive you need. But how much drive at what Z?

You're actually driving something that looks like a diode connected to ground. In one half cycle, Z is very low and in the other half it's very high. So the thing is non-linear and can't be summarized by an input Z number.

Other complications include the fact that you shouldn't exceed a reverse voltage of a couple volts or so on the B-E junction or you'll harm the transistor. I think that's one big reason for the parallel R you mention. Sometimes I wonder why a diode isn't used, but I guess that would make things even tougher on the driver.

I'm interested in hearing what some of the experts have to offer on this one.

72--Nick, WA5BDU

On Friday, February 07, 2003 11:31 AM, k4vib@att.net [SMTP:k4vib@att.net] wrote:

> Thanks for the replys everyone.  
>  
>  
> Are there general rules of thumb for the input impedance say of a class A  
> driver stage...and a class C PA stage? I notice on the SW++ series of  
radios  
> there is a 10ohm base resistor to ground on the PA stage. Does this set  
the PA  
> input stage impedance to 10 ohms?  
>

-----  
Date: Fri, 7 Feb 2003 22:16:26 -0600  
From: "Stephen Yates" <aa5tb@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [145931] Re: It's getting to be 30m time in the evenings!  
Message-ID: <002a01c2cf28\$d9bed940\$a500a8c0@texas.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The band is good. I worked Tanzania the other night QRP on 30m. He was the only signal on the band at the time.

73,  
Steve Yates - AA5TB

<http://www.qsl.net/aa5tb/>

-----  
Date: Sat, 08 Feb 2003 04:48:31 -0800  
From: Don Minkoff <cowchip@attbi.com>  
To: qrp-l@lehigh.edu  
Subject: [145932] NK6A FOX  
Message-ID: <3E44FC9F.2030007@attbi.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Thanks to everyone for the exciting evening digging out calls from the pack of hounds nipping at each other to get their call in. I found it especially interesting this time around listening to the pack. Same behavior as some of the DX pileups I get into.

I only got about 84 Q's. Probably because I had the pre amp on and the wrong filter selected. I'll redeem myself next month and use another rig, computer logging and try to break 100 for the evening. I'll have the logs up in another day.

K5DW, Don, if your out there..sorry . .You should have been louder for a Texan! Don't know what happened.

Don  
NK6A

-----  
Date: Fri, 7 Feb 2003 22:49:18 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: <hwardsil@centurytel.net>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [145933] Re: Transistor Input Impedance  
Message-ID: <006601c2cf2d\$714f5e20\$0201a8c0@fairviewtx.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I probably missed seeing it on this thread, but maybe it is worthwhile to mention that impedance is a frequency-dependent property which may or may not be of importance in the project under consideration.

73/72, George  
Amateur Radio W5YR - the Yellow Rose of Texas  
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE  
"In the 57th year and it just keeps getting better!"

----- Original Message -----  
From: "Ward Silver" <hwardsil@centurytel.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Friday, February 07, 2003 8:12 PM  
Subject: Re: Transistor Input Impedance

> Like most technical questions, the answer begins, "It depends..."  
>  
> If you are trying to find the input impedance for an amplifier circuit, the  
> answer depends on the configuration of the amplifier and the values of the  
> various resistors and loads.

-----  
Date: Fri, 7 Feb 2003 20:51:18 -0800  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [145934] Re: Dual-gate FETs  
Message-ID: <001d01c2cf2d\$b81420c0\$0b02a8c0@WorkGroup>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Interesting bibliography. I've had some luck locating Motorola App Notes before

(especially the classical power amplifier ones),  
but haven't had any luck finding these. I suppose this is a representation of the  
dodo-character of these interesting devices,  
unfortunately. I'll keep an eye out for books of the appropriate vintage at swap  
meets. In the meantime, anyone have a pointer to  
an on-line reference that explains the basic DC characteristics? (Knew I should  
have renewed my IEEE membership all those years  
ago:) ).

de ian, k3imw/6

-----  
Date: Sat, 08 Feb 2003 00:45:21 -0500  
From: Pete Burbank <plburbank@earthlink.net>  
To: kg6cyn@earthlink.net,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145935] Re: Digital on 40 meters  
Message-ID: <5.2.0.9.0.20030208004139.00a292d0@Earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Yup Yup Trev,  
I was going to check for a few more piggys and it was wall to wall RTTY.  
Cute  
73  
Pete NV4V

At 08:56 PM 2/7/2003, Trevor Jacobs wrote:  
>Boy, speaking of Digital on the bands, 40 meters is solid RTTY tonight!  
>Is there a contest this weekend? Time to do something else I guess...  
>  
>73's Trev KG6CYN  
><http://home.earthlink.net/~kg6cyn>  
><http://www.qsl.net/kg6cyn>

-----  
Date: Sat, 8 Feb 2003 0:0:53 -0600  
From: "Doc K0EVZ" <dock0evz@earthlink.net>  
To: "qrp-l reflector" <qrp-l@lehigh.edu>,  
"Ten-Tec Relector" <tentec@contesting.com>

Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [145936] Need Ten Tec CW filters  
Message-ID: <412003268605390@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Friends:

Looking for a set of #285 and #282 CW filters. Would consider INRAD equivalents, as well. Anyone have one or both for sale? Thanks in advance.

73,  
--Doc/K0EVZ

-----  
Date: Sat, 08 Feb 2003 07:34:03 -0500  
From: Alex <kr1st@amsat.org>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [145937] I jumped for this one!  
Message-ID: <3E44F93B.2CD6DF7C@amsat.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Just worked VK3EW with 5 Watts SSB on 7096/7227 (12:21 UTC). Awesome!  
Got "only" a 44 he was 59. Antenna still just 58 feet of wire in the tree.

73,  
--Alex KR1ST

-----  
Date: Sat, 8 Feb 2003 08:08:45 -0500  
From: wkhibbert@juno.com  
To: qrp-l@lehigh.edu  
Subject: [145938] Juno's Spamkiller & arrl.net  
Message-ID: <20030208.080845.-420445.0.wkhibbert@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Juno has just offered a spam removal service for all levels of subscription. However, I reported receiving some very obnoxious spam on the Juno account that I receive my forwarded mail from wb2vuo@arrl.net.

Because of this report, Juno is no longer accepting my forwarded mail and I will have to forward to a different account. I guess it's a case of "Beware of what you ask for, you just may get it..."

73, Wm. Keith Hibbert, WB2VUO, TC/WNY ARRL Section  
President, Brockport Amateur Radio Klub  
"My night light runs more power than my Rig!!!"

---

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Only \$9.95 per month!  
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-----  
Date: Sat, 8 Feb 2003 08:15:14 -0500  
From: "ss lyon" <sslyon@megalink.net>  
To: "chat qrp" <qrp-l@lehigh.edu>  
Subject: [145939] 30m time in the evenings!  
Message-ID: <002301c2cf74\$1e32d900\$0ac8e742@megalink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Just to reinforce that... worked ZL3/RN1AI at 12:30AM local. (5w to 180' EDZ at 60') He's just about as far away as you can get from here. Often I'll find the band fairly deserted except for maybe one little pileup (DX spots). It pays to spread out and tune from 10.102 to 10.110 or so.

73  
AA1MY

Seabury & Sharon Lyon  
99 Sparrowhawk Mtn Rd  
Bethel ME, 04217 U.S.A.  
207-836-2576

Virus Protection by Norton and ZoneAlarm

----- Original Message -----

From: "Stephen Yates" <aa5tb@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Friday, February 07, 2003 11:16 PM



Subject: Re: It's getting to be 30m time in the evenings!

> The band is good. I worked Tanzania the other night QRP on 30m. He was the  
> only signal on the band at the time.  
>  
> 73,  
> Steve Yates - AA5TB  
>  
> <http://www.qsl.net/aa5tb/>  
>

-----  
Date: Sat, 8 Feb 2003 08:19:26 -0500  
From: "ss lyon" <sslyon@megalink.net>  
To: <n4xy@earthlink.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [145940] Re: [Antennas] windowed ladder line vs. true open wire line  
Message-ID: <002901c2cf74\$b47f6900\$0ac8e742@megalink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks, Ed... good reading and confirmed my experience. It really justifies my effort to build my own. Another big practical advantage to the low profile HB design is MUCH lower wind resistance and failures due to wind-whipping, esp. over long stretches using trees as supports.

73  
AA1MY

Seabury & Sharon Lyon  
99 Sparrowhawk Mtn Rd  
Bethel ME, 04217 U.S.A.  
207-836-2576

Virus Protection by Norton and ZoneAlarm  
----- Original Message -----  
From: "Ed Tanton" <n4xy@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Friday, February 07, 2003 4:23 PM  
Subject: Fwd: [Antennas] windowed ladder line vs. true open wire line

> THIS is worth looking at...  
>

> >Wes Stewart has done an analyses on window line which was published in the  
> >ARRL's Antenna Compendium. For those interested in the line's wet and dry  
> >properties you can read Wes's draft of his article at  
> >[http://users.triconet.org/wesandlinda/ladder\\_line.pdf](http://users.triconet.org/wesandlinda/ladder_line.pdf)  
> >  
> >73  
> >Danny, K6MHE  
> >  
>  
> 73 Ed Tanton N4XY <n4xy@earthlink.net>  
>  
> Ed Tanton N4XY  
> 189 Pioneer Trail  
> Marietta, GA 30068-3466  
>  
> website: <http://www.n4xy.com>  
>  
> All emails <IN> & <OUT> checked by  
> Norton AntiVirus with AutoProtect  
>  
> LM: ARRL QCWA AMSAT & INDEXA;  
> SEDXC NCDXA GACW QRP-ARCI  
> OK-QRP QRP-L #758 K2 (FT) #00057  
>  
>  
>

-----  
Date: Sat, 08 Feb 2003 13:34:23 +0000  
From: "Leon Heller" <leon\_heller@hotmail.com>  
To: kd1jv@moose.ncia.net, qrp-l@Lehigh.EDU  
Subject: [145941] Re: Check those electrolytics!  
Message-ID: <F166iaaskjeo4lB4Bw00001dd0b@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

>From: Steven Weber <kd1jv@moose.ncia.net>  
>Reply-To: kd1jv@moose.ncia.net  
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
>Subject: Re: Check those electrolytics!  
>Date: Fri, 07 Feb 2003 12:11:29 -0500

>  
>I'm forever chasing down bad electrolytics. 100 uF/25V seem to be common  
>ones to short in cheap stereos.  
>  
>For the last couple of weeks, I've had to heat the inside of my PC with a  
>hair dryer to get it to boot in the morning. Yesterday I finally tracked  
>down the bad caps to ones on the K6-2 cpu addaptor board and changed them  
>out. Looks like I can put the cover back on the PC now :-)

A few months ago, there was a serious problem with Al electrolytics that was well publicised. I think the electrolyte was contaminated, or something like that. Vast numbers were involved, mainly affecting PC motherboards.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 14790  
Email:leon\_heller@hotmail.com  
My web page: [http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)

---

Worried what your kids see online? Protect them better with MSN 8  
<http://join.msn.com/?page=features/parental&pgmarket=en-gb&XAPID=186&DI=1059>

---

Date: Sat, 8 Feb 2003 06:59:11 -0700 (MST)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: Don Wines <dwines@tyler.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [145942] Re: Triple but hard work!  
Message-ID: <Pine.LNX.4.44.0302080649300.1394-100000@bucket.dog>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

The problem was Don that I was not aware there was a Pesky Texan with the call k5dw. Those 2 k5dw? were what caused me to think he had heard me, I was calling the same time Don was, The call k5d(anything)? will get my attention and I called him with my corrected callsign and it worked.

On Fri, 7 Feb 2003, Don Wines wrote:

> ----- Original Message -----

> From: "Karl F. Larsen" <k5di@zianet.com>  
> >.....  
> > There I called a few times and  
> > Don called k5dw? and sent his numbers and again said k5dw? bk. I came  
> > back with de k5di k5di 559 NM KARL 5W de k5di k5di bk. Don came back  
> > with bk k5di TU...  
>  
> Hi Karl,  
>  
> Don, NK6A, was working (or attempting to work) me K5DW. Here's how the  
> exchange went:  
>  
> NK6A: K5DW?  
> Me: K5DW K5DW BK  
> NK6A: K5DW 559 CA DON 5W K5DW BK.  
>  
> I then attempted to send my exchange but apparently you jumped in and  
> picked him off at that point because he came back with K5DI TU QRZ. No harm  
> done because I was able to work him again 10 or 15 minutes later for the  
> pelt.  
>  
> But...Fox hunt etiquette says that if it's not your call on the front and  
> back of the Fox's exchange...you don't call him back. If he doesn't hear  
> anyone come back to him, he will send: CALL? At that point you can send your  
> call if it is similar and go ahead and work the Fox for the pelt.  
>  
> Just be aware that there are other calls out there similar to yours and  
> you're not the only K5D? pounding the paddles trying to get a pelt.  
>  
Yes it was surprising all the messages I got from Texas  
complaining that I stole a contact from a Texan. I'm now aware there are  
other k5d(anything)? stations pounding the paddles.

> > I fear Don had his receiver preamp on and AGC on and 10 db attenuator  
> > off. He is having trouble working the strong guys too.  
>  
> I'm sure Don knows how to operate his station much better that you do.  
>  
> 72  
> Don, K5DW  
> k5dw@arrl.net  
> QRP-L #2083 QRP-ARCI #10145 NETXQRP #3 EM22gm  
> Visit the NETXQRP Web Site at <http://www.netxqrp.org>  
>  
>

>  
>  
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

-----  
Date: Sat, 8 Feb 2003 08:51:01 -0500  
From: Rick McKee <kc8aon@juno.com>  
To: kr1st@amsat.org, qrp-l@Lehigh.EDU  
Subject: [145943] Re: Fw: Let's cheer up a long time reflector member  
Message-ID: <20030208.085522.8926.0.kc8aon@juno.com>

I would just put "QRP-L" !

73,  
Rick, KC8AON

On Sat, 08 Feb 2003 00:35:51 -0500 Alex <kr1st@amsat.org> writes:  
>Excellent idea, Rick! That was exactly what I was thinking of doing. I  
>have a whole bunch of regular SC cards that I have left over from when  
>I  
>was an SWL and had no QSL cards yet. Then it dawned on me that perhaps  
>a  
>QSL would be nicer. What do we fill out for the frequency? Email? :)  
>  
>Have a great weekend and 73,  
>--Alex KR1ST  
>

-----  
Sign Up for Juno Platinum Internet Access Today  
Only \$9.95 per month!  
Visit [www.juno.com](http://www.juno.com)

-----  
Date: Sat, 08 Feb 2003 15:54:30 +0000  
From: Larry Cahoon <lejek@erols.com>  
To: dwines@tyler.net,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145944] Re: Triple but hard work!  
Message-ID: <5.1.0.14.0.20030208153318.02839bf0@pop.erols.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I see this kind of confusion at times on the county hunting net. There is usually no one at fault. And as in this case most times both guys usually end up in the log.

What happens is that as soon as Don adds the question mark at the end of the call he opens it up to anyone who has a call similar to K5DW. Now if K5DI knows there is a K5DW then he will QSX, otherwise he will throw out his call. That is to be expected. No ones know the calls off all those hunting the fox.

At read the message I see two versions of what happened next - in one Don sent his exchange and in the other he didn't. I usually find it best not to send the info until I'm sure of the call. So in Don's shoes I would have verified the call first.

If the Fox sends his info prior to verifying the call he can end up with both K5DI and K5DW sending their info. That looks like what happened here. If there is QRM on the frequency or if neither is running QSK they likely will not hear or recognize each others attempt to get the fox.

At that point Don picks the one who he copied best and moves on. The one thing he did that was real good was to identify who he logged so the other knew to try again.

I'm glad in the end both got the fox.

73 de Larry.....WD3P in MD  
<http://www.wd3p.net/>

At 08:15 PM 2/7/2003 -0600, Don Wines wrote:

>----- Original Message -----

>From: "Karl F. Larsen" <k5di@zianet.com>

> >.....

> > There I called a few times and

> > Don called k5dw? and sent his numbers and again said k5dw? bk. I came

> > back with de k5di k5di 559 NM KARL 5W de k5di k5di bk. Don came back

> > with bk k5di TU...

>

>Hi Karl,

>

>Don, NK6A, was working (or attempting to work) me K5DW. Here's how the  
>exchange went:

>

>NK6A: K5DW?

>Me: K5DW K5DW BK  
>NK6A: K5DW 559 CA DON 5W K5DW BK.  
>  
>I then attempted to send my exchange but apparently you jumped in and  
>picked him off at that point because he came back with K5DI TU QRZ. No harm  
>done because I was able to work him again 10 or 15 minutes later for the  
>pelt.  
>  
>But...Fox hunt etiquette says that if it's not your call on the front and  
>back of the Fox's exchange...you don't call him back. If he doesn't hear  
>anyone come back to him, he will send: CALL? At that point you can send your  
>call if it is similar and go ahead and work the Fox for the pelt.  
>  
>Just be aware that there are other calls out there similar to yours and  
>you're not the only K5D? pounding the paddles trying to get a pelt.  
>  
> > I fear Don had his receiver preamp on and AGC on and 10 db attenuator  
> > off. He is having trouble working the strong guys too.  
>  
>I'm sure Don knows how to operate his station much better than you do.  
>  
>72  
>Don, K5DW  
>k5dw@arrl.net  
>QRP-L #2083 QRP-ARCI #10145 NETXQRP #3 EM22gm  
>Visit the NETXQRP Web Site at <http://www.netxqrp.org>

-----  
Date: Sat, 8 Feb 2003 09:04:05 -0700  
From: "Rod N0RC" <rod@n0rc.us>  
To: "ncarc-1" <ncarc@mailman.qth.net>,  
"cqc-1" <CQCLIST@yahoogroups.com>, "qrp-1" <qrp-1@Lehigh.EDU>,  
Subject: [145945] FS Books  
Message-ID: <00aa01c2cf8b\$b5e85060\$6401a8c0@greyrock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Title: The Electronics of Radio,  
Author: David B. Rutledge  
Publisher: Cambridge University Press  
ISBN: 0-521-64645-6  
Condition: Very Good to Excellent

Price: \$36 shipping included CONUS

Title: Introduction to Radio Frequency Design  
Author: Wes Hayward, W7ZOI  
Publisher: ARRL  
ISBN: 0-87259-492-0  
Condition: Excellent to Near New  
Price: \$32 shipping included CONUS

Title: Solid State Design for the Radio Amateur  
Author: Wess Hayward, W7ZOI; Doug DeMaw W1FB  
Publisher: ARRL  
ISBN: 0-87259-040-2  
Condition: Very good to Excellent  
Price: \$7 shipping included CONUS

Title: W1FP's QRP Notebook  
Author: Doug DeMaw W1FB  
Publisher: ARRL  
ISBN: 0-87259-365-7  
Condition: Very Good to Excellent  
Price: \$8 shipping included CONUS

73, Rod NØRC

-----  
Date: Sat, 08 Feb 2003 11:00:48 -0600  
From: Randy Moore <wrmoore47@comcast.net>  
To: "'QRP-L Reflector'" <QRP-L@lehigh.edu>  
Subject: [145946] K2 QSL  
Message-ID: <000001c2cf93\$a3e63370\$f3b23e44@aeronca>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Check this out! I was motivated by the recent thread on QSLs

<http://mywebpages.comcast.net/wrmoore47/K2QSL.htm>

73,  
Randy, KS4L

-----



Date: Sat, 8 Feb 2003 13:24:54 -0600  
From: "Doc K0EVZ" <dock0evz@earthlink.net>  
To: "qrp-l reflector" <qrp-l@lehigh.edu>,  
"Ten-Tec Relector" <tentec@contesting.com>  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [145947] WTB--T-T 282 and 285 filtres  
Message-ID: <412003268192454108@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Friends:

Looking for a set of the Ten Tec 282 and 285 filtres. Please e-mail with price. Ready to buy. Thanks in advance.

73,  
--Doc/K0EVZ

-----  
Date: Sat, 08 Feb 2003 14:31:04 -0500  
From: "David B. Sarraf" <david.sarraf@paonline.com>  
To: Brad Hernlem <alihernlem@hotmail.com>  
Cc: qrp-l@lehigh.edu  
Subject: [145948] re: [OT] Mostek Part Identity Help Needed  
Message-ID: <3E455AF8.39BA523A@paonline.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Brad:

I haven't done any research but would guess that it is a 256 bit dynamic shift registers. It is made by Mostek and the part number is on the second line. Arrays of those little cans are what passed for memory back then. The shift register wasn't random access but it was self-refreshing. I had saved some cards from an old computer which used an 8008 processor. It had 256 bytes of conventional random-access memory on the processor board. A second board had shift register arrays which provided 2048 bytes of cache memory and 512 bytes of video memory. Our first CNC mill used shift register memory. Cantankerous

and unreliable stuff in a machine shop environment, but the best that could be done in its day.

If you really need to have the data for it let me know and I will dig out the data books. Beware that it probably needs dual or triple power supplies and may not be directly compatible with TTL or CMOS logic levels. Unless you want to make it work for the sheer joy of it, you'd be better off using a PIC or ATMEL chip.

Don't throw it away - it's a museum piece. It probably cost more dollars than today's 256 megabyte memory stick, and the dollars now are worth far less.

Dave Sarraf  
N3NDJ

>Anyone recognize a circa 1970s round metal can 10-pin part bearing the markings:

>

>MOSTEK

>MK6057L

>1818-0048

>

>I have reason to believe that the last number MIGHT be an HP number.

-----

Date: Sat, 8 Feb 2003 14:37:11 -0500

From: "George Osier" <gosier@twcnny.rr.com>

To: "QRP-L" <qrp-l@lehigh.edu>

Subject: [145949] XF1K ..... 24908 ... Got em 5 w

Message-ID: <000001c2cfa9\$c64f3ea0\$aa634342@twcnny.rr.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hello All !!!!

XF1K up 3 on 24908 ..... got him before he went EU only ..... but could be coming back to USA soon !!!

Rig a Ten Tec Omni D , antenna a Cushcraft AR-10 Ringo up 25 ft

71s

George Osier , N2JNZ / QRP

-----  
Date: Sat, 8 Feb 2003 12:30:13 -0800  
From: "Alan Kaul, W6RCL" <alan.kaul@worldnet.att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145950] CW contest ops--chance to see over 50 F12 elements next weekend  
Message-ID: <000d01c2cfb0\$e4c67400\$b93ecd18@charterpipeline.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Any hi speed CW ops interested in being part of a multi-multi contest station????

Alan Kaul, W6RCL, LaCanada, CA  
w6rcl@amsat.org  
<http://home.att.net/~alan.kaul/index.html>

----- Original Message -----

From: "James W. Fisher, Jr." <74237.2073@compuserve.com>  
To: "Force12talk" <force12talk@qth.com>  
Sent: Saturday, February 08, 2003 8:57 AM  
Subject: [Force 12 Talk] CW ops--chance to see over 50 F12 elements next weekend

Due to health- and death-in-the-family cancellations, there are some openings for CW ops at VE1JF for an M/2 operation in the coming ARRL DX Test.

Station description at <http://www.ve1jf.com> (only home and QSL pages loaded)

If interested, please contact me ASAP directly by email or at (902) 532 - 7474.

BTW, according to claimed scores posted on 3830, we were 9th in the world in the new M/2 classification, with 3 ops and a single tower.

73,

Jim, VE1JF

-----  
end  
-----

Force12Talk mailing list provided as a service by Force 12 Antennas, Inc.  
Force12 Web Site: <http://www.force12inc.com>

To Submit Message to the List: [Force12Talk@qth.com](mailto:Force12Talk@qth.com)  
To unsubscribe and view the Message Archive: see <http://qth.com/force12/list>  
For problems with the list: contact [n4zr@qth.com](mailto:n4zr@qth.com)

-----  
Date: Sat, 08 Feb 2003 13:00:50 -0800  
From: Dick Ballard <[ballardr@att.net](mailto:ballardr@att.net)>  
To: [qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)  
Subject: [145951] Check those electrolytics!  
Message-ID: <[dora4vkapg91n12c0eaet9ht14bd0u108f@4ax.com](mailto:dora4vkapg91n12c0eaet9ht14bd0u108f@4ax.com)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable

The quoted link in the earlier discussion was:

<http://www.niccomp.com/taiwanlowesr.htm>

Dick Ballard  
Beaverton OR  
W7AND

On Sat, 08 Feb 2003 13:34:23 +0000, you wrote:

>A few months ago, there was a serious problem with Al electrolytics that=  
was=20  
>well publicised. I think the electrolyte was contaminated, or something =  
like=20  
>that. Vast numbers were involved, mainly affecting PC motherboards.

-----  
Date: Sun, 9 Feb 2003 07:19:30 +1000  
From: "Sam Dellit" <[sam.dellit@bigpond.com](mailto:sam.dellit@bigpond.com)>  
To: <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>, <[chistrask@earthlink.net](mailto:chistrask@earthlink.net)>  
Subject: [145952] Re: Dual-gate FETs  
Message-ID: <[001e01c2cfb7\\$c592eb20\\$c2518a90@Robyn](mailto:001e01c2cfb7$c592eb20$c2518a90@Robyn)>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

g'day chris, ian and the qrp-l reflector group

the variable gain 160-meter preamp described by  
gary nichols kd9sv in "ham radio" october 1989  
is frequently complemented on the topband reflector.

<http://home.sprintmail.com/~sentek/Page46.jpg>  
<http://home.sprintmail.com/~sentek/Page47.jpg>  
<http://home.sprintmail.com/~sentek/Page48.jpg>  
<http://home.sprintmail.com/~sentek/Figure3.jpg>

the circuit uses a single 3sk88 dgmosfet, achieves  
0-27dB variable gain by biasing the 2nd gate and  
has tuned input and output

just wondering whether you have measured NF  
and IP3 for this circuit and how it compares to  
the norton bipolar circuits. i presently use 3 off  
manually switched 9dB norton bipolars which  
perform well but get a little bulky on dx trips.  
a single variable gain unit seemed a better way  
to go

73s gd dx de sam dellit vk4zss

> I've used DGFETs for mixers and variable gain amplifiers. They are  
very  
> quiet as mixers (couple the L0 to gate 2), but terribly nonlinear, same as  
> for VG amps, so I have been giving them less consideration. They are,  
> however, very convenient. Philips and Toshiba still make them as they  
find  
> a lot of application in the front end of consumer TV sets.  
>

-----  
Date: Sat, 08 Feb 2003 13:57:38 -0800  
From: Mike Seiffert & Lorene Samoska <samsei@earthlink.net>  
To: qrp-l@lehigh.edu  
Subject: [145953] Re: Is digital moving in?  
Message-ID: <3E457D52.27E4494F@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi everyone -

I'm a new, slower-speed ham, and I operate 100% cw qrp (my only rig is a NorCal 40A). I'm working on getting the speed up, though! Thanks to many of you who have put had patience with my keying & hearing.

There was an interesting thread a while ago about RF attenuation, IF amps, etc and the ability to pull out weak signals. I think I understand the basic premise. I have to say though, that I haven't found much use for the RF gain control on my NorCal 40A. It does indeed reduce the RF gain, but I haven't noticed that it improves the ability to pick up weak signals next to strong ones. Am I missing something?

72,  
Mike KG6MGJ

> It also  
> seems that slower speed hams, maybe new ones, are often heard more now  
> around the QRP freq. too which I consider a good and healthy  
> development for QRP and CW.  
>  
> Ed Lawson  
> K1VP

-----  
Date: Sat, 8 Feb 2003 17:31:50 -0500  
From: "brian" <brian@iquest.net>  
To: "QRP-L" <qrp-l@Lehigh.EDU>, "Flying Pigs" <fpqrp-l@fpqrp.com>  
Subject: [145954] FIST Sprint - QRP Style  
Message-ID: <000901c2cfc1\$e2444d40\$03622bd1@bmurrey2K>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Well it wasn't the best Sprint, but it was a lot of fun. I just finished the Winter FISTS Sprint with a score of 3583.

I made 38 contacts in the 4 hours, was shooting for 60 though. I spent too much time on 15m at the onset. It was not productive. Once again the 40m band proved to be the tree with the heaviest fruit...so to speak.

However, I did get KS, MT, WV and SD in the log for 2003 already. A huge accomplishment for me and this QTH.

Ran the K1 off battery into the old attic dipole. Worked 15, 20, and 40m.

Last night I bought the CD that Scott (N3FJP) sells. The software was VERY easy to use and setup and the FISTS log was easily imported into the general shack log. Well worth the \$49 for everything. (You get a logger for about every contest you can think of, plus the general shack log).

I haven't explored all the features yet but it says it'll interface with QRZ or Buckmaster or the FCC database if you are so inclined, and it will interface to your rig and do the keying...but I haven't tried that yet.

<http://www.n3fjp.com/>

For more info. He sells the contest versions for like \$6.00 each...but they will run for 15 days with no registration required. I guess this would be the free trial period.

72 de KB9BVN

```
=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====
```

-----

Date: Sat, 08 Feb 2003 23:34:50 -0800  
From: Don Minkoff <cowchip@attbi.com>  
To: qrp-l@lehigh.edu, nk6a@arrl.net  
Subject: [145955] FOX LOG for NK6A Feb 7  
Message-ID: <3E46049A.2010402@attbi.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

Here is my log as best as I could decipher my writing.

Flames to the left. Corrections to the right.

0201	W7KXB	559	AZ	BILL	5W
0202	KG6CYN	559	CA	TREV	5W
0202	AC7A	559	AZ	TOM	5W
0203	W4NJK	559	CA	CHARLIE	5W
0206	N4ROA	559	VA	DAN	5W
0207	KR5C	559	TX	GEORGE	5W
0207	N4BP	559	FL	BOB	5W
0208	N1FN	559	CO	ET	5W
0209	A0CH	559	MO	DAVE	5W
0212	WW7Y	559	UT	STEVE	5W
0213	KK5NA	559	TX	JOE	5W
0214	NJ6P	559	CA	LEON	700
0216	N0TK	559	CO	DAN	5W
0217	K9OZ	559	IL	BRAC	5W
0218	W0RSP	599	AZ	ADE	5W
0220	KB7WW	559	OR	ART	5W
0222	W5YR	559	TX	GEORGE	5W
0223	KK5LD	559	TX	DAN	5W
0225	VE6EX	559	AB	DAN	5W
0225	K0FRP	599	CO	AL	5W
0226	WE9K	559	WI	GLENN	5W
0229	KI0II	559	CO	RON	5W
0230	K3PH	559	PA	BOB	5W
0231	N2WW	559	CO	LARRY	5W
0233	WS0T	579	IA	TOM	10W
0234	K5JHP	559	TX	BILL	5W
0235	K0EVZ/P	579	SD	DOC	5W
0240	N3BJ	559	VA	ALAN	5W
0242	WA9TZE	339	WI	JIM	5W
0242	NM5M	559	TX	ERIC	5W
0244	K5DI	559	NM	KARL	5W
0244	VE6KG	559	AB	NORM	5W
0247	K9DC	559	IN	DAVE	5W
0248	AC5JH	559	OK	TOM	5W
0251	K5SA	579	MS	SKIP	5W
0252	W5USJ	559	TX	CHUCK	5W
0256	W8SFF	559	MI	STEVE	5W
0256	WD9F	559	IL	WOODY	5W
0258	W9XU	559	WI	LON	5W
0258	K5AIC	559	TX	HERB	5W



0259	K5FSE	559	GA	JACK	5W
0301	N00R	559	CO	JIM	4W
0302	N9NE	559	WI	TODD	5W
0303	K40AH	559	GA	REY	5W
0305	WE9K	559	WI	GLENN	5W
0306	K5DW	559	TX	DON	5W
0307	VE6JAZ	559	AB	ROB	5W
0309	N5ZE	559	TX	LEW	5W
0310	AA50	559	LA	VERN	5W
0313	K5E0A	559	LA	WAYNE	5W
0314	N0RC	559	CO	RON	5W
0315	K50I	559	OK	TIM	5W
0317	W7IU	559	WA	GARY	500MW
0319	N9AW	559	WI	JERRY	5W
0320	AJ4AY	559	AL	JAY	5W
0321	K4FB	559	FL	PAUL	5W
0222	N1TP	559	FL	TOM	5W
0224	KR0U	559	CO	TIM	5W
0226	W2AGN	559	NJ	JOHN	5W
0228	K3ESE	559	MD	LLOYD	5W
0330	NB7F	559	OR	LEE	5W
0331	K5TR	599	TX	GEO	100MW
0332	AF4LQ	569	KY	MIKE	5W
0334	N6LIF	539	TX	MARTIN	5W
0335	N0UR	559	MN	JIM	5W
0337	W5TB	559	TX	DOC	5W
0338	N0WX	559	MN	MIKE	5W
0339	KJ0C	559	MO	KJIM	5W
0340	NV4V	559	KY	PETE	5W
0342	WA8NTA	559	CO	DICK	5W
0344	NK9G	559	WI	RICK	5W
0345	W8YMO	559	OH	HARRY	5W
0348	AB9CA	559	AL	DAVE	5W
0349	VE5RC	229	SK	BRUCW	5W
0351	VA6RF	559	AB	EARL	5W
0352	WB6BWZ	559	GA	MATT	5W
0353	K6VNX	559	CA	ARLEN	5W
0355	N5IB	559	LA	JIM	5W
0356	K5WL	559	OK	BART	5W
0357	KB3E0F	559	MD	SANDY	5W
0358	KI0RB	559	CO	VINCE	5W
0359	K2ZN	559	NY	AL	5W
0400	K0PC	FOX			
0400	NK6A	FOX			

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End of QRP-L Digest 2825

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